

ABSTRACT OF THE DISCLOSURE

An apparatus for measuring stress is provided that includes a stress sensor including, in part, a sensing device configured for generating and outputting sensor measurement signals representative of a stress or a component of a stress. In one embodiment, the stress sensor permits sensing and measurement of a shear component of a stress substantially exclusive of a normal component thereof. The stress sensor may be suited for measuring stress between mated bodies, such as at an interface between the mated bodies. A method of measuring stress using the stress sensor and a rocket motor including at least one stress sensor are also provided.